

solid state communications

**an international journal
volume 79**



Pergamon Press
Oxford • New York • Seoul • Tokyo

SOLID STATE COMMUNICATIONS

EDITOR-IN-CHIEF, ELIAS BURSTEIN

ASSOCIATE EDITOR-IN-CHIEF, MANUEL CARDONA

EDITORIAL POLICY COMMITTEE

P. G. DE GENNES J. A. KRUMHANSL W. M. LOMER S. LUNDQVIST H. SUHL Y. TOYOZAWA

BOARD OF EDITORS

- V. M. AGRANOVICH, *Moscow*
Institute of Spectroscopy of the Academy of Sciences, U.S.S.R. Academgorodok, Podolski r-n, Moscow obl. 142092, U.S.S.R.
- S. ALEXANDER, *Rehovot*
Department of Chemical Physics, Weizmann Institute of Science, Rehovot 76100, Israel
- M. BALKANSKI, *Paris*
Laboratoire de Physique des Solides, Université Pierre et Marie Curie, 4, Place Jussieu, Tour 13-2e Etage, 75230 Paris Cedex 05, France
- I. BALSLEV, *Odense*
Fysisk Institut, Odense Universitet, DK-5230 Odense M, Denmark
- R. BARRIE, *Vancouver*
Department of Physics, University of British Columbia, Vancouver 8, British Columbia, Canada V6T 1W5
- P. BURLET, *Grenoble*
Centre d'Etudes Nucléaires, DRF/SPH-MDN, 85x, 38041 Grenoble Cedex, France
- G. BURNS, *New York*
I.B.M., T. J. Watson Research Center, P.O. Box 218, Yorktown Heights, New York 10598, U.S.A.
- (Deputy Editor-in-Chief)
- M. F. COLLINS, *Hamilton*
Department of Physics, McMaster University, Hamilton, Ontario, Canada L8S 4M1
- C. CALANDRA, *Trieste*
Laboratorio TASC-INFM, Padriciano, 99, 34012 Trieste, Italy
- P. H. DEDERICH, *Jülich*
Institut für Festkörperforschung der Kernforschungsanlage Jülich GmbH, 5170 Jülich 1—Postfach 1913, Federal Republic of Germany
- A. L. EFROS, *Leningrad*
(On leave)
- G. FASOL, *Cambridge*
Hitachi Cambridge Laboratory, c/o Cavendish Laboratory, Madingley Road, Cambridge CB3 0HE, U.K.
- R. FIESCHI, *Parma*
Istituto di Fisica, Università degli Studi, 43100 Parma, Italy
- Z. GAN, *Beijing*
Department of Physics, Peking University, Beijing 100871, People's Republic of China
- C. E. T. GONÇALVES DA SILVA, *Campinas*
Laboratório Nacional de Luz Sincrotron/CNPq/MCT, Caixa Postal 6192, Campinas 13081 SP, Brazil
- M. GRYNBERG, *Warsaw*
Institute of Experimental Physics, University of Warsaw, 00-681 Warsaw, ul. Hoza 69, Poland
- G. GÜNTHERODT, *Aachen*
II. Physikalisches Institut, RWTH Aachen, Templergraben 55, D-5100 Aachen, Federal Republic of Germany
- J. JOFFRIN, *Paris*
Université Paris-Sud, Batiment 510, 91405 Orsay, France
- H. KAMIMURA, *Tokyo*
The Science University of Tokyo, Department of Applied Physics, Faculty of Science, 1-3 Kagurazaka, Shinjuku-ku, Tokyo 162, Japan
- L. V. KELDYSH, *Moscow*
P. N. Lebedev Institute, Academy of Sciences of the U.S.S.R. Leninskii Prospect 53, 117924 Moscow, U.S.S.R.
- W. Y. KUAN, *Beijing*
(On leave)
- B. LUNDQVIST, *Göteborg*
Institute of Theoretical Physics, Chalmers University of Technology, S-412 96 Göteborg, Sweden
- A. H. MACDONALD, *Bloomington*
Department of Physics, Indiana University, Bloomington, Indiana 47405, U.S.A.
- A. A. MARADUDIN, *Irvine*
Department of Physics, University of California, Irvine, California 92717, U.S.A.
- T. P. MARTIN, *Stuttgart*
Max-Planck-Institut für Festkörperforschung, Heisenbergstrasse 1, 7000 Stuttgart 80, Federal Republic of Germany
- E. MOLINARI, *Rome*
CNR Istituto "Corbino", Via Cassia 1216, 00189 Rome, Italy
- B. MÜHLSCHLEGEL, *Köln*
Institut für Theoretische Physik, Universität zu Köln, Zulpicher Str. 77, D-5000 Köln 41, Federal Republic of Germany
- A. OKIJI, *Osaka*
Department of Applied Physics, Faculty of Engineering, Osaka University, Suita, Osaka 565, Japan
- A. PINCZUK, *New Jersey*
Room 1D-433, AT&T Bell Laboratories, Murray Hill, New Jersey 07974, U.S.A.
- C. N. R. RAO, *Bangalore*
Indian Institute of Science, Bangalore 560012, India
- R. H. SILSBEE, *Ithaca*
Laboratory of Atomic and Solid State Physics, Cornell University, Ithaca, New York 14853, U.S.A.
- J. TAUC, *Providence*
Box D, Division of Engineering, Brown University, Providence, Rhode Island 02912, U.S.A.
- T. TSUZUKI, *Sendai*
Department of Physics, Faculty of Science, Tohoku University, Aoba-ku, Sendai 980, Japan
- D. VAN DYCK, *Antwerp*
University of Antwerp (RUCA), Groenenborgerlaan 171, B-2020 Antwerp, Belgium
- P. WACHTER, *Zürich*
Laboratorium für Festkörperforschung der ETH, CH-8093 Zürich, Hönggerberg, Switzerland
- F. YNDURAIN, *Madrid*
Dpto. de Física de la Materia Condensada, C-III, Universidad Autónoma de Madrid, Cantoblanco, 28049-Madrid, Spain
- A. ZAWADOWSKI, *Budapest*
Institute of Theoretical Physics, Eötvös Loránd University, H-1088 Budapest, Puskin Utca 5-7, Hungary

PRODUCTION EDITOR

M. R. JAKEMAN, Production Department, Pergamon Press plc, Headington Hill Hall, Oxford OX3 0BW, U.K.

SOLID STATE COMMUNICATIONS is a companion journal to THE JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS.

Publishing and Advertising Offices: Pergamon Press Inc., 395 Saw Mill River Road, Elmsford, NY 10523, U.S.A.; Pergamon Press plc, Headington Hill Hall, Oxford OX3 0BW, U.K. Tel.: Oxford (0865) 794141. Fax: Oxford (0865) 60285.

Subscription enquiries from customers in North America should be sent to: Pergamon Press Inc., 395 Saw Mill River Road, Elmsford, NY 10523, U.S.A. and for the remainder of the world to: Pergamon Press plc, Headington Hill Hall, Oxford OX3 0BW, U.K. Annual institutional subscription rate (1992): £915.00 (US\$1465.00). Two-year institutional rate (1992/93): £1738.00 (US\$2783.50). Sterling prices are definitive. US dollar prices are quoted for convenience only, and are subject to exchange rate fluctuation. Prices include postage and insurance and are subject to change without notice. Subscription rates for Japan are available on request.

Published: 48 issues per annum.

Back Issues: Back issues of all previously published volumes, in both hard copy and on microform, are available direct from Pergamon Press offices.

Copyright © 1991 Pergamon Press plc

It is a condition of publication that manuscripts submitted to this journal have not been published and will not be simultaneously submitted or published elsewhere. By submitting a manuscript, the authors agree that the copyright for their article is transferred to the publisher if and when the article is accepted for publication. However, assignment of copyright is not required from authors who work for organisations which do not permit such assignment. The copyright covers the exclusive rights to reproduce and distribute the article, including reprints, photographic reproductions, microform or any other reproductions of similar nature and translations. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means: electronic, electrostatic, magnetic tape, mechanical, photocopying, recording or otherwise without permission in writing from the copyright holder.

U.S. Copyright Law Applicable to Users in the U.S.A.

Photocopying information for users in the U.S.A. The Item-fee Code for this publication indicates that authorization to photocopy items for internal or personal use is granted by the copyright holder for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service provided the stated fee for copying, beyond that permitted by Section 107 or 108 of the United States Copyright Law, is paid. The appropriate remittance of \$3.00 per copy per article is paid directly to the Copyright Clearance Center Inc., 27 Congress Street, Salem, MA 01970.

The Item-Fee Code for this publication is: 0038-1098/91 \$3.00 + .00

Disclaimer. Whilst every effort is made by the publishers and editorial board to see that no inaccurate or misleading data, opinion or statement appear in this journal, they wish to make it clear that the data and opinions appearing in the articles and advertisements herein are the sole responsibility of the contributor or advertiser concerned. Accordingly, the publishers, the editorial board and editors and their respective employees, officers and agents accept no responsibility or liability whatsoever for the consequences of any such inaccurate or misleading data, opinion or statement.

Permission for other use. The copyright owner's consent does not extend to copying for general distribution, for promotion, for creating new works, or for resale. Specific written permission must be obtained from the publisher for such copying.

© TM The text paper used in this publication meets the minimum requirements of American National Standard for Information Sciences—Permanence of Paper for Printed Library Materials, ANSI Z39.48-1984.

CONTENTS

JULY

VOLUME 79, NUMBER 1

1991

General Papers

- | | |
|--|---|
| L. Vel and G. Demazeau | 1 Nucleation and growth of cubic BN crystals in the presence of $\text{Ca}_3\text{B}_2\text{N}_4 + x \text{ LiF}$ as flux-precursor |
| P. R. Bote, P. K. Patil, J. K. Nandgave and R. D. Lawangar-Pawar | 5 Cubic→hexagonal phase transformation in ZnS:Mn:Cu(Cl) phosphors |
| T. Tsuzuki | 9 The quantum tunneling-localization transition of the ground state of a spin-boson system |
| M. N. Piancastelli, R. Zanoni, M. Marsi and G. Margaritondo | 13 Chemisorption and physisorption of simple alcohols on cleaved silicon |
| L. C. Andreani and H. Beck | 17 A zero-temperature variational study of the two-impurity Anderson model |
| J. P. Nozières and H. R. Rechenberg | 21 Magnetic properties of $\text{Nd}_2\text{Fe}_{17}$ |
| E. Nogueira Jr and A. S. Carrico | 25 Vibrational spectrum of vicinal surfaces |
| B. Drittler, M. Weinert, R. Zeller and P. H. Dederichs | 31 Vacancy formation energies of fcc transition metals calculated by a full potential Green's function method |

Superconductors and Superconductivity

- | | |
|---|--|
| S. I. Frolov, V. G. Litovchenko, M. A. Tanatar, V. S. Yefanov, V. V. Dyakin, A. P. Motliakh, S. V. Moshkin and M. A. Kuz'mina | 39 Optical constants spectra for single crystal $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ with different stoichiometry |
| R. S. Liu, J. D. Johnson, P. P. Edwards and A. M. Campbell | 43 Magnetisation and intragrain critical current density of monophasic $\text{Tl}_{1.8}\text{Ba}_2\text{Ca}_{2.2}\text{Cu}_3\text{O}_{10-d}$ |
| M. Sohma and K. Kawaguchi | 47 Preparation of CuO films and the magnetic properties |
| Guo-qing Zheng, E. Yanase, K. Ishida, Y. Kitaoka, K. Asayama, Y. Kodama, R. Tanaka, S. Nakamichi and S. Endo | 51 NQR investigation of high T_c superconductors under pressure |
| B. Andraka, C. S. Jee, J. S. Kim, G. R. Stewart, K. D. Carlson, H. H. Wang, A. V. S. Crouch, A. M. Kini and J. M. Williams | 57 Specific heat of the high T_c organic superconductor $\kappa\text{-(ET)}_2\text{Cu[N(CN)}_2\text{]Br}$ |
| L. Kan, S. Elschner and B. Elschner | 61 ESR investigation of superconductor-to-metal transition in $\text{La}_{2-x-y}\text{Er}_y\text{Sr}_x\text{CuO}_{4-d}$ |

General Papers (contd)

- | | |
|---|---|
| C. M. Chittaranjan, V. Kumar, B. Viswanathan and K. P. Gopinathan | 69 Mössbauer study of $\text{Al}_{13}\text{Fe}_4$ |
|---|---|

- L. Braicovich, B. De Michelis, A. Fasana, E. Puppini, M. Sancrotti, E. Vescovo, R. Eggenhöfner, A. Iandelli, G. L. Olcese and A. Palenzona
- A. G. Mal'shukov
- J.-C. Ronfard-Haret, D. Kouyate and J. Kossanyi
- F. S. L. Cassino and A. S. T. Pires
- G. A. Niklasson, A. Berg, K. Brantervik, B. Hedberg and L. O. Nilsson
- G. Chanussot
- A. Hamawi and L. Walldén
- 75 Chemical substitution effect on Yb valence in the surface region of $\text{Yb}_{1-x}\text{M}_x\text{Al}_2$ (M = Sc, Ca): a photoemission investigation
- 81 The infrared absorption line shape of molecules adsorbed on a metal surface
- 85 Evidence for direct impact-excitation of luminescent rare-earth centers (Ho^{3+} and Sm^{3+}) in semiconducting zinc oxide
- 89 Non-linear effects in the easy-plane one-dimensional antiferromagnet in a staggered field
- 93 Dielectric properties of porous cement mortar: fractal surface effects
- 97 An "inverse" glassy-state in oxygen octahedra crystals
- 101 Overlayer states for Na on Si(100)
- i Errata
- iii Instructions for Authors on the Preparation of Camera-Ready Manuscripts for *Solid State Communications*

JULY

VOLUME 79, NUMBER 2

1991

General Papers

- P. K. Patil, J. K. Nandagave and R. D. Lawangar-Pawar
- N. T. Bagraev and I. S. Polovtsev
- G. L. Krasko and G. B. Olson
- J. H. Stathis, S. Rigo and I. Trimaille
- G. Y. Guo, H. Ebert, W. M. Temmerman, K. Schwarz and P. Blaha
- B. Mitrović and P. N. Arberg
- F. Iikawa, C. Trallero-Giner and M. Cardona
- W. L. Warren, P. M. Lenahan and C. J. Brinker
- A. Lodder
- A. Lodder
- 105 Optimization of the coating and sintering conditions for the deposition of (Zn,Cd)S : Cu films
- 109 Nuclear spin-lattice relaxation in silicon with one-dimensional defects
- 113 Effect of hydrogen on the electronic structure of a grain boundary in iron
- 119 Oxygen interaction with defects at the Si/SiO₂ interface
- 121 Relativistic effects on the structural and magnetic properties of iron
- 125 Optical conductivity of the Anderson impurity model
- 131 Optical emission of exciton - phonon quasiparticles in InP
- 137 Relationship between strained silicon - oxygen bonds and radiation induced paramagnetic point defects in silicon dioxide
- 143 Clarification of the direct-force controversy in electromigration theory
- 147 On Sorbello's corrections to the new electromigration theory

Superconductors and Superconductivity

- J. M. Sanchez and J. L. Morán-López
- Y. Koike, T. Kawaguchi, N. Watanabe, T. Noji and Y. Saito
- 151 Pseudo-three dimensional model of oxygen ordering in $\text{YBa}_2\text{Cu}_3\text{O}_{6+\delta}$
- 155 Superconductivity and low-temperature structural phase transition in $\text{La}_{1.98-x}\text{Ce}_{0.02}\text{Ba}_x\text{CuO}_4$

General Papers (contd)

- G. A. Northrop, D. J. Wolford and S. S. Iyer 161 Radiative recombination in MBE-prepared epitaxial Si and Si_{1-x}Ge_x layers
- M. Kahrizi, S. K. Misra, J. Kotlinski, M. O. Steinitz and T. Smith-Palmer 167 Mn²⁺ EPR study of phase transitions occurring in single crystals of [N(CH₃)₄]₂ZnCl₄, [N(CH₃)₄]₂ZnBr₄, [N(CH₃)₄]₂CoBr₄, [N(C₂H₅)₄]₂ZnCl₄, [N(C₂H₅)₄]₂ZnBr₄, [N(C₂H₅)₄]₂CoBr₄ and [N(C₂H₅)₄]₂MnBr₄
- Yang-Fang Chen, Si-Chen Lee and Ji-Hong Chen 175 Existence of a universal low-energy tail in the photoluminescence of α -SiC:H alloys
- M. Tomellini 179 Double scattering contributions in EELS—III. Evaluation of the EELFS amplitudes in backscattering geometry
- G. Cappellini and R. Del Sole 185 Estimate of image-potential perturbation on the normal inverse and direct photoemission yields
- P. O. Nilsson and S. P. Svensson 191 The phosphorus Auger L_{2,3}VV spectrum of InP(110)
- R. Caciuffo, G. Amoretti, J. M. Fournier, A. Blaise, R. Osborn, A. D. Taylor, J. Larroque and M. T. Hutchings 197 Evidence of a lattice distortion in NpO₂ below 25 K from neutron magnetic inelastic scattering

JULY

VOLUME 79, NUMBER 3

1991

General Papers

- R. Coluzzi, A. Scacco, F. Somma, G. Baldacchini, E. Ciaramella, R. M. Montoreali and O. Pilla 201 Zero-phonon lines in the R₂ absorption of F₂ centres in KF
- S. S. Chao, D. A. Pawlik, J. González-Hernández, Qi Wang and D. D. Allred 205 The effect of oxygen on the structure of annealed W/C multilayer thin films
- C. A. Achilleos, I. M. Kyprianidis and I. A. Tsoukalas 209 On the magnetic properties and $\alpha \leftrightarrow \gamma$ transformation of some Fe-Co-Ni ternary alloys
- Ch. Aron, P. Auric and C. Jeandey 217 Magnetic properties of sputtered amorphous Fe_xSi_{100-x}/Si multilayers
- H. D. Fuchs, D. J. Mowbray, M. Cardona, S. A. Chalmers and A. C. Gossard 223 Interface phonons in short-period GaAs/AlAs superlattices: wave vector-selective and defect-activated
- O. B. Tsiok, V. A. Sidorov, V. V. Bredikhin, L. G. Khvostantsev, A. V. Golubkov and I. A. Smirnov 227 Compressibility and electronic transport properties of SmSe and SmTe at the pressure induced valence transition
- M. I. Klinger and S. N. Taraskin 231 The role of interband interactions in formation of mobility gap negative-U states in glassy semiconductors

Superconductors and Superconductivity

- Kiejn Lee, B. K. Jeon, Gwangseo Park, Pansup Song and Seung Pyung Choi 237 Study of Y₁Ba₂Cu_{3-x}Sb_xO_y superconductors
- R. Janes, K. K. Singh, S. D. Burnside and P. P. Edwards 241 On the absence of EPR in cuprate superconductors and their antiferromagnetic antecedents
- Chang-qing Xu, T. Kondo, H. Sakakura, K. Kumata, Y. Takahashi and R. Ito 245 Optical third-harmonic generation in layered perovskite-type material (C₁₀H₂₁NH₃)₂PbI₄
- Chang-qing Xu, H. Sakakura, T. Kondo, S. Takeyama, N. Miura, Y. Takahashi, 249 Magneto-optical effects of excitons in (C₁₀H₂₁NH₃)₂PbI₄ under high magnetic fields up to 40 T

K. Kumata and R. Ito

M. Ohkubo and T. Hioki

A. Nishida, K. Shiiyama, T. Fujita,
H. Shibayama, K. Iwahashi and K. HoraiN. A. Fortune, K. Murata, M. Ishibashi,
M. Tokumoto, N. Kinoshita and H. Anzai255 Over-hole-doping state of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ superconductor259 Scaling behavior in the irreversibility of $\text{Tl}_2\text{Ba}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ superconductors investigated through microwave absorption265 Calorimetric observation of the metal-insulator phase transition in $\alpha\text{-(BEDT-TTF)}_2\text{I}_3$ **General Papers (contd)**Ze-Nong Ding, Yu Xia, Li-Bin Lin, Hao Che
and Xin-Chuan Zeng

273 Spin wave spectra of two-sublattice Heisenberg ferrimagnetic thin films

Y. Satyanarayana Murty, S. Uthanna,
B. Srinivasulu Naidu and P. Jayarama Reddy277 Photoconductive response of polycrystalline $p\text{-AgGaSe}_2$ thin films

JULY

VOLUME 79, NUMBER 4

1991

General Papers

M. Onoda, H. Ohta and H. Nagasawa

281 Metallic properties of perovskite oxide SrVO_3 A. R. Mkrtchyan, H. A. Aslanyan,
A. H. Mkrtchian, R. H. Gasparian,
A. Kh. Mkhitarian, G. M. Garibian,
R. H. Avakian, S. P. Taroyan,
A. E. Avetisyan, H. S. Kisogyan,
K. R. Dallakyan, V. A. Gyurdzhyan,
S. S. Danagulyan, G. M. Elbakyan
and Ye. M. Boyakhchyan

287 Experimental observation of quasiCerenkov radiation in the quartz single crystal

K. K. Chopra and D. Kitous

289 Lattice dynamics of copper and silver

R. Vila, A. Ibarra, M. Jiménez de Castro and
F. W. Clinard295 Thermally stimulated depolarization currents in neutron irradiated Al_2O_3

G. Boureau, O. Masmoudi and R. Tetot

299 Electrical conductivity in nonstoichiometric cerium dioxide

J. P. Nawrocki and V. Y. Young

303 Electronic structure of color center aggregates in potassium chloride

H. Guyot, E. Al Khoury, J. Marcus,
C. Schlenker, M. Banville and S. Jandl307 Infrared reflectivity studies on quasi-two dimensional molybdenum oxides Mo_4O_{11}

V. P. Plakhty

313 On the origin of weak antiferromagnetism in $\text{CuCl}_2\cdot 2\text{D}_2\text{O}$ G. A. Petrakovskii, K. A. Sablina,
A. M. Vorotinov, V. N. Vasiliev,
A. I. Kruglik, A. D. Balaev,
D. A. Velikanov and
N. I. Kiselev317 Magnetic, resonance, and electrical properties of single crystal and amorphous Bi_2CuO_4 **Superconductors and Superconductivity**

R. E. Lagos

323 A theory for high temperature superconductivity: application to tunneling conductance

A. E. Karakozov, E. G. Maksimov and
A. A. Mikhailovsky

329 The investigation of Eliashberg equations for superconductors with strong electron-phonon interaction

H. Tajima, T. Naito, M. Tamura,

337 Energy level inversion in strongly dimerized $[\text{Pd}(\text{dmit})_2]$ salts

A. Kobayashi, H. Kuroda, R. Kato,
H. Kobayashi, R. A. Clark and
A. E. Underhill

- | | | |
|--|-----|---|
| M. Acquarone | 343 | Is the electronic phase separated state realized in the metallic state of the system $(V_{1-x}M_x)_2O_3$ ($M = \text{Ti, Cr}$)? |
| Y. Tanaka, H. Yamagami and M. Tsukada | 349 | Distribution of quasiparticles in the S - N - S junction |
| B. Szymanik and A. Edgar | 355 | Electrical conductivity of BaRuO ₃ ceramics |
| K. F. McCarty, J. Z. Liu, Y. X. Jia,
R. N. Shelton and H. B. Radousky | 359 | Effect of gold-doping on the energy gap of YBa ₂ Cu ₃ O ₇ as determined by Raman scattering |
| C. Ramakrishnan and N. Krishnamurthy | 363 | The elastic constants of YBa ₂ Cu ₃ O _{7-δ} |
| M. Takashima, M. Amaya, T. Sasaki,
T. Unishi, A. Sumiyama and Y. Oda | 371 | Improvement of superconductivity of oxygen deficient YBa ₂ Cu ₃ O _{7-δ} by ClF ₃ treatment |
| T. G. N. Babu, F. J. Berry and C. Greaves | 375 | The erroneous description of a high temperature superconductor of composition Sn ₂ Ba ₂ Sr _{0.5} Y _{0.5} Cu ₃ O _x |

General Papers (contd)

- | | | |
|--|-----|--|
| L. Braicovich, F. Ciccacci, E. Puppini,
M. Sancrotti, E. Vescovo and G. Bertuccio | 379 | Ultraviolet inverse photoemission spectroscopy from YFe ₂ |
| P. Vajda, J. N. Daou, P. Moser and P. Rémy | 383 | Hydrogen relaxation in yttrium |
| K. Esfarjani and S. T. Chui | 387 | Shear modulus of the magnetophonon wave function |

i Author Index Nos 1 - 4

AUGUST

VOLUME 79, NUMBER 5

1991

General Papers

- | | | |
|--|-----|--|
| M. Bouhki, A. Bruson and P. Guilmin | 389 | Interdiffusion and amorphization in Ni/Ti multilayers |
| R. S. Lima, P. H. Dionisio, W. H. Schreiner
and C. Achete | 395 | Magnetron sputtered tin nitride |
| L. N. Pandey, T. F. George and D. Sahu | 399 | Width anomaly in resonant tunneling structures |
| P. Guéret | 403 | Is the momentum of a tunneling electron real or imaginary? An alternative description of the tunneling process |

Superconductors and Superconductivity

- | | | |
|--|-----|---|
| T. Staufer, R. Hackl and P. Müller | 409 | Some new aspects of the electronic response in Cu - O superconductors |
| W.-M. Hurng, S. F. Wu, C. Y. Shei,
Y. T. Huang, C. Chiang, H. S. Koo,
W. H. Lee and P. T. Wu | 413 | Formation of (Tl,Pb,Bi)Sr _{1.6} Ca _{2.4} Cu ₃ O _y superconducting phase with $T_c = 105$ K by nitrates conversion |
| I. Boonpikun and S. Yoksan | 417 | Cooper pairing in oxide superconductors |
| R. Jayavel, P. Murugakoothan,
C. R. Venkateswara Rao, C. Subramanian
P. Ramasamy, A. Chakravarti,
R. Ranganathan and A. K. Raychaudhuri | 421 | Preparation and characterisation of BiSrCaCuO through glassy route |

General Papers (contd)

- | | | |
|--|-----|---|
| M. Khodja and M. Mostefa | 427 | Thermopower behaviour in metal – insulator composites |
| P. D. Emmel and I. C. da Cunha Lima | 431 | Effect of compensation on the absorption coefficient for shallow donors in a quantum well |
| J. Beauvais, E. Fortin, L. Kulyuk and V. E. Tezlevan | 435 | Photoluminescence kinetics in Cr-doped CdIn_2S_4 |
| G. Slavcheva and I. Yanchev | 439 | Potential fluctuations due to the randomly distributed charges at the semiconductor – insulator interface in MIS-structures |
| H. Araki, R. Matsuoka and K. Yoshino | 443 | Ferromagnetic behavior of pyrolyzed <i>o,m,p</i> -phenylenediamine and triazine derivatives |
| J. Himmrich and H. D. Lutz | 447 | Normal coordinate analyses and lattice dynamical calculations of spinel-type ZnCr_2O_4 |
| S. Masuda, H. Ishii and Y. Harada | 453 | Metastable atom electron spectroscopy of potassium-adsorbed $\text{Si}(001)\text{-}2 \times 1$ surface |
| X. J. Chen and F. Toigo | 457 | Non-local corrections in density functional theory |

AUGUST

VOLUME 79, NUMBER 6

1991

General Papers

- | | | |
|--|-----|--|
| | 461 | A salute to Stig Lundqvist |
| M. Zehetbauer, V. Gröger and B. R. Watts | 465 | Deviations from Matthiessen's rule in copper containing dislocations |
| F. L. A. Machado, F. C. Montenegro, S. M. Rezende, E. Montarroyos, L. J. Azevedo and W. G. Clark | 469 | Spin-glass behavior in the Al:Mn quasicrystalline alloys |
| V. B. Campos, M. H. Degani and O. Hipólito | 473 | Many-polaron interaction effects in GaAs–GaAlAs quantum-well-wires |

Superconductors and Superconductivity

- | | | |
|--|-----|--|
| L. Tröger, D. Arvanitis, J. Röhler, B. Schliepe and K. Baberschke | 479 | Anomaly of the oxygen local environment in $\text{YBa}_2\text{Cu}_3\text{O}_7$ around T_c |
| J. Horn, H. Börner, H. C. Semmelhack, B. Lippold, J. Herrmann, M. Wurlitzer, M. Krötzsch, U. Boehnke, F. Schlenkrich and Ch. Frenzel | 483 | On the preparation of $\text{Y}_1\text{Ba}_2\text{Cu}_4\text{O}_8$ |
| B. Lippold, J. Herrmann, U. C. Boehnke, H. Börner, J. Horn, H. C. Semmelhack and M. Wurlitzer | 487 | Investigations on BaPrO_3 |
| Yang Li, Guohui Cao, Ruzhang Ma and Zhongxian Zhao | 491 | X-ray diffraction study of softening in lattice vibration in the high- T_c phase of Bi-based superconductor |
| L. S. Vaidhyanathan and G. Rangarajan | 495 | A magnetic study of the oxide superconductors of the type $(\text{Pr}_x\text{Y}_{1-x})\text{Ba}_2\text{Cu}_3\text{O}_{7-y}$, $0 < x \leq 1.0$ |

- Y. Koike, T. Okubo, A. Fujiwara, T. Noji and Y. Saito 501 Trial of intercalation of Br and Li into $\text{Bi}_2\text{Sr}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_{2n+4}$ ($n = 1, 2, 3$)
- A. W. Webb, K. H. Kim and C. Bouldin 507 The valence of copper in LaCuO_3 : an X-ray absorption study
-
- General Papers (contd)**
- A. Goldmann, W. Altmann and V. Dose 511 Experimental widths of excited electron states in metals
- E. J. Mele 515 Spin analog method for collective modes of the Hubbard model
- S. R. Dhariwal and B. M. Deoraj 521 Theory of dispersive relaxation in amorphous semiconductors
- S. Schmitz and S. Ewert 525 Electron tunneling experiments on amorphous $\text{Tl}_x\text{Te}_{1-x}$ films
- R. Lenk 531 Resistance resonance in coupled wells and quantum transport concepts
- B. Šantić, N. Radić and U. V. Desnica 535 Calculation of the glow curve shape—application to the thermally stimulated currents (TSC)
- K. M. K. Srivatsa, A. K. Mishra and S. D. Pandey 539 Optical absorption of Co^{2+} ions doped in potassium Tutton salt single crystals
- J. Sapriel, J. Chavignon, F. Alexandre, R. Azoulay, B. Sermage, K. Rao and M. Voos 543 Above bandgap luminescence of *p*-type GaAs epitaxial layers

AUGUST

VOLUME 79, NUMBER 7

1991

General Papers

- W. B. Euler and A. Szabo 547 X-ray powder diffraction on oligomeric and polymeric permethylpolyazine
- D. Gottlieb and M. Lagos 551 General solution for the antiferromagnetic Heisenberg model with exchange anisotropy toward the Ising limit
- J. L. P. Castineira, L. M. R. Scolfaro and J. R. Leite 557 Impurity levels of substitutional chalcogens-doped Ge
- S. Selci, A. Cricenti, M. Righini, C. Petrillo, F. Sacchetti, F. Alexandre and G. Chiarotti 561 Evaluation of electron-phonon coupling of $\text{Al}_{0.27}\text{Ga}_{0.73}\text{As}$ /GaAs quantum wells by normal incidence reflectance

Superconductors and Superconductivity

- G. G. Chepurko, I. V. Paukov, M. N. Popova and Ja. Zoubkova 569 Spectral studies of magnetic cuprates $\text{R}_2\text{Cu}_2\text{O}_5$ ($\text{R} = \text{Tb}, \text{Er}, \text{Tm}, \text{Lu}, \text{Y}$)
- D. Abukay, H. Nakano and L. Rinderer 573 Hysteretic behaviour of the transport critical current and the flux-flow voltage in the bulk and the thin-film samples of bi-system
- R. Akis and J. P. Carbotte 577 Strong coupling effects on the low frequency conductivity of superconductors

- J. E. Eldridge, K. Kornelsen,
Hau. H. Wang, J. M. Williams,
A. V. Strieby Crouch and
D. M. Watkins 583 Infrared optical properties of the 12 K organic superconductor
 κ -(BEDT-TTF)₂Cu[N(CN)₂]Br
- K. P. Rajeev, G. V. Shivashankar and
A. K. Raychaudhuri 591 Low-temperature electronic properties of a normal conducting
perovskite oxide (LaNiO₃)
- A. Ślebarski, A. Chelkowski and
M. Niewiara 597 Superconductivity in lead-containing Y-Ba-Cu-O
compounds
- A. Mumtaz, H. Athar, S. K. Hasanain and
J. A. Khan 601 Flux pinning in intergrain junctions—a magnetization rotation
study
- T. Krekels, G. Van Tendeloo,
S. Amelinckx, J. Karpinski, E. Kaldis
and S. Rusiecki 607 Structural considerations on 1-2-3 polytypoids
- R. Cloots, A. Rulmont, P. A. Godelaine,
C. Hannay, H. W. Vanderschueren and
M. Ausloos 615 Sulphur substitution for oxygen in YBa₂Cu₃O₇ ceramics

General Papers (contd)

- Z.-X. Shen, R. S. List, D. S. Dessau,
A. J. Arko, R. Bartlett, O. Jepsen,
B. O. Wells and F. Parmigiani 623 Angle resolved photoemission of NiO(001)
- M. N. Vijayashree and S. V. Subramanyam 629 Low temperature properties of 3,4,9,10-perylenetetracar-
boxylic dianhydride film
- G. D. Maksimović, Z. S. Popović and
F. R. Vukajlović 631 Magnetic properties of hexagonal-close-packed Cr

AUGUST

VOLUME 79, NUMBER 8

1991

General Papers

- N. F. Uvarov, E. F. Hairetdinov,
J. M. Reau and P. Hagemuller 635 Determination of charge carriers parameters of the
Pb_{1-x}Bi_xO_{x/2}F₂ solid solution
- A. Mosser, M. A. Romeo, J. C. Parlebas,
K. Okada and A. Kotani 641 Photoemission on 2p core levels of copper: an experimental
and theoretical investigation of the reduction of copper
monoxide
- D. Stoeffler and H. Dreyssé 645 Strong or weak ferromagnetism in transition metals
- Ming-C. Cheng and E. E. Kunhardt 651 Monte Carlo investigation of acoustic, intervalley and
intravalley deformation potentials for GaAs
- W. Schülke, K.-J. Gabriel, A. Berthold and
H. Schulte-Schrepping 657 Interlayer states of LiC₆ investigated by inelastic X-ray
scattering spectroscopy (IXSS) using Li-core excitation
- W. Schülke, A. Berthold,
H. Schulte-Schrepping, K.-J. Gabriel,
V. Thommes-Geiser and H.-J. Güntherodt 661 Band structure induced changes of the dielectric response
upon potassium intercalation in graphite studied by inelastic
X-ray scattering

Superconductors and Superconductivity

- R. Rajput, Y. S. Reddy, D. P. Singh,
K. D. Kundra and R. G. Sharma 667 110 K phase and oxygen balance in BSCCO system

- J. Humlíček, J. Kircher, H.-U. Habermeier, M. Cardona, Y. Fang, U. Welp, K. Vanderwoort and D. Crabtree 673 Free-carrier optical response of $\text{YBa}_2\text{Cu}_3\text{O}_7$
- M. Licheron, N. Lissart and F. Gervais 677 Electron paramagnetic resonance of BaPbO_3 , $\text{Ba}_4\text{Pb}_3\text{O}_{10}$, Ba_2PbO_4 and bismuth-substituted compounds doped with Gd^{3+}

General Papers (contd)

- W. Dickenscheid, R. Birringer, H. Gleiter, O. Kanert, B. Michel and B. Günther 683 Investigation of self-diffusion in nanocrystalline copper by NMR
- K. C. Nandi, D. Mukherjee, A. K. Biswas and H. N. Acharya 687 Characterization of hydrogenated amorphous silicon films obtained from rice husk
- R. G. Mani, L. Ghenim and J. B. Choi 693 Weak localization in the narrow gap bulk semiconductors $\text{Hg}_{1-x}\text{Cd}_x\text{Te}$ and InSb
- A. Kumar, M. Manzar Malik, M. Zulfequar, A. Kumar and M. Husain 699 Electrical conductivity and thermo-electric power in $\text{Se}_{80-x}\text{Te}_{20}\text{In}_x$
- J. A. Holyst and H. Benner 703 Effect of transverse spin-waves on the density of soliton pairs in TMMC below T_N

i Corrigendum

iii Author Index Nos 1-8

SEPTEMBER

VOLUME 79, NUMBER 9

1991

General Papers

- N. N. Kolpakova, A. Pietraszko, S. Waplak and L. Szczepańska 707 Isostructural phase transition in the cubic oxide pyrochlore $\text{Cd}_2\text{Nb}_2\text{O}_7$

Superconductors and Superconductivity

- V. V. Srinivasu, B. Thomas, N. Y. Vasanthacharya, M. S. Hegde and S. V. Bhat 713 Critical current density measurements of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films by non-resonant r.f. absorption method
- P. Vašek, I. Janeček and V. Plecháček 717 The Hall effect anomaly in single phase Bi based ceramics
- D. Nguyen Manh, D. Mayou and F. Cyrot-Lackmann 723 Electronic structure and metal-semiconductor transition in $\text{Ba}_{1-x}\text{K}_x\text{BiO}_3$ and $\text{BaBi}_{1-x}\text{Pb}_x\text{O}_3$
- A. M. Grishin, V. N. Korenivski and A. N. Ul'yanov 729 Degradation of $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_y$ ceramics at low-temperature thermocycling in inert atmosphere
- K. P. Sinha 735 The polarizability of the lochon-fermion interaction in the cuprate superconductors

General Papers (contd)

- Y. Wu and A. Stesmans 741 Electron spin resonance observation of structural modifications in amorphous silicon during annealing at sub-crystallization temperatures

H. Cruz, A. Hernandez-Cabrera and A. Muñoz	749	Quantum magnetotunneling time of electrons in $\text{Ga}_{1-x}\text{Al}_x\text{As-GaAs}$ superlattices
T. Ikehara and T. Itoh	755	Picosecond dynamics of hot biexcitons in CuCl under weak excitation regime
S. Gangopadhyay, S. Modak, B. C. Khanra and J. C. Bertolini	759	Segregation behaviour in $\text{Pt}_x\text{Ni}_{1-x}(110)$ and (111) surfaces
S. Hayashi, K. Kozaru and K. Yamamoto	763	Enhancement of photoelectric conversion efficiency by surface plasmon excitation: a test with an organic solar cell
M. R. A. Shegelski and D. J. W. Geldart	769	Theory of freezing temperatures of metallic spin glasses
C. F. Lo and R. Sollie	775	Mass dependence of ground-state properties of Wannier exciton in a quantum dot
I. B. Vendik	779	Two-mode model of charge-density-wave dynamics in quasi-one-dimensional conductors

SEPTEMBER

VOLUME 79, NUMBER 10

1991

General Papers

Bo-Ping Hu and Gui-Chuan Liu	785	Magnetic properties of $R_2\text{Fe}_{17}\text{C}_x$ compounds ($R = \text{Y, Sm and Er}, x \sim 2$)
Li Zhiqiang, Luo Helie, Lai Wuyan, Zeng Zhi and Zheng Qingqi	791	Electronic structure and magnetic properties of MnBi(Al,Nd)
J-Y. Veuillen, S. Kennou and T. A. Nguyen Tan	795	Formation and electronic structure of terbium silicide epitaxially grown on $\text{Si}(111)$
T. Drüsedau, B. Schröder and H. Oechsner	799	Effective nitrogen doping of $\alpha\text{-Ge:H}$ films prepared by DC-magnetron sputtering
M. Greaney, G. Huan, K. V. Ramanujachary, Z. Teweldemedhin and M. Greenblatt	803	Antiferro-to-ferromagnetic transition in metallic $\text{TiCo}_2\text{S}_x\text{Se}_{2-x}$ ($0 \leq x \leq 2.0$) with the ThCr_2Si_2 type structure
G. Kriza, Y. Kim, A. Beleznyay and G. Mihály	811	Dielectric excitations of the pinned charge- and spin-density wave
K. V. Paulose, J. Koshy and A. D. Damodaran	815	Enhanced oxygen absorption in SnO_2 added $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$
J. T. Devreese and F. Brosens	819	Extension of the Feynman inequality for path-integrals to a non-zero magnetic field
C. M. Lepienski, J. A. Giacometti and C. A. Achete	825	LIPP study of a glass sample previously submitted to a DC potential

Superconductors and Superconductivity

R. Chandra, A. K. Gupta and V. S. Tomar	831	Sputter deposition of oriented Y-Ba-Cu-O thin films and study of grain boundary Josephson junctions
E. J. Nicol and J. P. Carbotte	835	Superconducting state optical conductivity of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ due to a bosonic mechanism

- G. Balestrino, V. Foglietti, M. Marinelli,
E. Milani, A. Paoletti and P. Paroli 839 Transport properties of epitaxial BSCCO films grown on
untwinned NdGaO₃ substrates
- S. D. Savransky 843 Local pairs superconductivity in glassy and crystalline As₂Te₃
- M. O. Selme and P. Pecheur 847 Tight-binding calculation of the effect of iron, cobalt and
nickel impurities in YBa₂Cu₃O₇
- P. Guptasarma, V. R. Palkar,
M. S. Multani, R. Vijayaraghavan,
S. T. Bendre and S. B. Ogale 851 Epitaxial thin films of YBa₂Cu₄O₈ superconductor deposited
by laser ablation of solution derived complex targets
- S. K. Agarwal, R. Suryanarayanan,
O. Gorochoy, V. N. Moorthy and
A. V. Narlikar 857 Superconductivity and possible carrier localization in
YBa₂Cu_{3-x}Zn_xO_{7-y}
- S. A. Sergeenkov 863 On field-induced irreversibility line crossover in deoxygenated
weak-links-containing superconductors
- K. Osuch 867 On the low-temperature magnetic ordering in ErBa₂Cu₃O₇

General Papers (contd)

- C. Julien, J. Ruvalds, A. Virosztek and
O. Gorochoy 875 Fermi liquid reflectivity of TiS₂
- L. B. Litinsky 879 The pseudoinverse matrix and the methods of band calculation
i Corrigendum

SEPTEMBER

VOLUME 79, NUMBER 11

1991

General Papers

- T. Yamashiro, J. Takahara, Y. Takagaki,
K. Gamo, S. Namba, S. Takaoka and
K. Murase 885 Commensurate classical orbits on triangular lattices of anti-
dots
- S. Marcinkevičius, G. Ambrazevičius,
T. Lideikis and K. Naudžius 889 Band offset determination from conduction band filling in
InGaAs/GaAs quantum wells
- R. Bradshaw and R. J. Sladek 893 Photo-ultrasonic effects in oxygen-doped *n*-GaAs at low
temperatures
- M. Horbach 897 Effect of weak time-dependence of disorder on localization
- J. M. Léger and H. Alouliti 901 X-ray study of anthracene under high pressure
- K. Inoue, O. Matsuda and K. Murase 905 Raman spectra of tetrahedral vibrations in crystalline
germanium dichalcogenides, GeS₂ and GeSe₂, in high and low
temperature forms
- J. M. Calleja, A. R. Goñi, B. S. Dennis,
J. S. Weiner, A. Pinczuk, S. Schmitt-Rink,
L. N. Pfeiffer, K. W. West, J. F. Müller
and A. E. Ruckenstein 911 Large optical singularities of the one-dimensional electron gas
in semiconductor quantum wires
- V. A. Grazhulis 917 On magnetism of quantum "dots" and "channels"

A. Bensaid, G. Patrat, M. Brunel,
F. de Bergevin and R. Hérino

923 Characterisation of porous silicon layers by grazing-incidence
X-ray fluorescence and diffraction

Superconductors and Superconductivity

E. V. Abel', V. S. Bagaev, D. N. Basov,
O. V. Dolgov, A. F. Plotnikov,
A. G. Poiarkov and W. Sadovsky

931 Infrared spectroscopy of $\text{Nd}_{2-y}\text{Ce}_y\text{CuO}_4$ ($y = 0-0.2$) single
crystals

D. Sen, S. K. Ghatak, K. L. Chopra,
G. Markendeyaulu and D. Bhattacharya

935 Electromagnetic response of superconducting YBaCuO-Ag
composite in the r.f. region

A. A. Zakhidov, A. Ugawa, K. Imaeda,
K. Yakushi, H. Inokuchi, K. Kikuchi,
I. Ikemoto, S. Suzuki and Y. Achiba

939 Evolution of superconductivity of K_xC_{60} upon K-doping:
microwave low-field signal and ESR study

S. Seki

947 Shielding effect of the quasi-2D supercurrent on the photon-
mediated spin-spin interaction

S. Seki

951 In-plane anisotropy-induced reduction of the effective
Coulomb repulsion in a Cu-O based superconductor

R. Dagys, G.-J. Babonas, G. Pukinskas and
L. Leonyuk

955 Optical properties of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ -type compounds

D. López, R. Decca and F. de la Cruz

959 Topological pinning and flux flow in ceramic superconductors

S. Wernbter and L. Tewordt

963 Theory of nuclear relaxation rate, structure factor for neutron
scattering, and phonon thermal conductivity for high- T_c
superconductors

D. Castello, M. Jaime and
M. Núñez Regueiro

967 Thermal conductivity of high temperature superconductor
 TlBaCaCuO

Xin-Fei, D. F. Lu, G. F. Sun, K. W. Wong,
P. C. W. Fung and H. Yang

971 The superconducting 112 oxides

H.-O. Feldhütter, A. Šimůnek and
G. Wiech

977 Polarized X-ray O K- and Cu L-emission bands of $\text{YBa}_2\text{Cu}_3\text{O}_6$
and $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$

General Papers (contd)

J. Y. Fang, S. J. Xiao, Z. H. Lu, Y. Wei,
Z. M. Sun and P. Stroeve

985 Structural and optical characterization of Langmuir-Blodgett
films with alternating bilayers of hemicyanine dye and
cadmium stearate

E. Tamura and R. Feder

989 Spin-polarized normal photoemission from non-magnetic
(1 1 1)-surfaces by p -polarized light

Lei Qingquan, Fan Yong and Shan Shufa

995 Effect of temperature and high pressure on conductive
behaviour of polyacene quinone radical polymers

Ben-yuan Gu and Chong-ru Huo

999 Analytical variational expressions for calculation of binding
energies of the donor states in quantum wells

Xiao Dingquan, Zhu Jianguo, Zhao Shipin,
Wang Xiu, Zhang Wen, Liu Guoqin and
Xu Guanfeng

1005 Photostriction effect of doped LiNbO_3 single crystals

- | | | |
|---|------|--|
| S. Goettig | 1009 | Undamped collective excitations in high-temperature electron plasma |
| M. Załuźny | 1013 | Bound-free intraband absorption line shape in quantum-well structures |
| Y. Nishio, K. Kajita and W. Sasaki | 1017 | Electronic states near the metal-insulator transition in neutron irradiated Si:P |
| J. Blinowski, P. Kacman and H. Przybylińska | 1021 | p - d Interaction in $A^{II}B^{VI}$ diluted magnetic semiconductors |

i Calendar of Solid State Events

SEPTEMBER

VOLUME 79, NUMBER 12

1991

General Papers

- | | | |
|---|------|---|
| Z. Henkie, P. Wiśniewski, R. Fabrowski and R. Maślanka | 1025 | Dependence of ordering temperature on pressure, carrier density and U-U distance in uranium pnictides; pressure and Hall effects examinations of UP_2 and USb_2 |
| Y. Ohmura | 1029 | Mechanism of piezoresistance in p -type Ge |
| I. Gorczyca, N. E. Christensen, P. Perlin, I. Grzegory, J. Jun and M. Bockowski | 1033 | High pressure phase transition in aluminium nitride |
| V. G. Golubev and W. Prettl | 1035 | FIR Photoconductivity at filamentary current flow in n -GaAs in a magnetic field |
| N. Miura, H. Yokoi, J. Kono and S. Sasaki | 1039 | High field cyclotron resonance and the electron effective masses in AlAs |
| A. J. Millis and S. N. Coppersmith | 1043 | Nonconvergence of the t/U expansion in the metallic phase of the Hubbard model |

Superconductors and Superconductivity

- | | | |
|---|------|---|
| T. Koyama and M. Tachiki | 1049 | Spiral vortex in anisotropic superconductors |
| Xianhui Bu, A. Frost-Jensen, R. Allendoerfer, P. Coppens, B. Lederle and M. J. Naughton | 1053 | Structure and properties of a new κ -phase organic metal: $(BEDT-TTF)_2Cu_2(CN)_3$ |
| O. Milat, G. Van Tendeloo, S. Amelinckx, T. G. N. Babu and C. Greaves | 1059 | On the origin of the modulated structure in $Ca_{0.85}CuO_2$: an electron microscopy study |
| V. L. Matukhin, I. A. Safin, V. N. Anashkin, O. V. Zharikov and Yu. A. Ossipyan | 1063 | ^{63}Cu NQR in superconducting $YBa_2Cu_3O_{6.1}I_x$ |

General Papers (contd)

- | | | |
|----------------------------|------|--|
| K. H. Youm and Sung-Ik Lee | 1069 | a.c. Conductivity and dielectric constant in a two-dimensional Swiss cheese percolation system |
| M. Janßen | 1073 | Conductance coefficients for multi-probe conductors |

E. Burzo and P. Lucaci

1077 Magnetic properties of $U_xGd_{1-x}Al_2$ and $U_xDy_{1-x}Al_2$ compounds

Y. Ohno

1081 Interlayer interaction in misfit layer compounds MTS_3 (M = Sn, Pb, La; T = Ti, Nb)

1085 Author Index Nos 1-12

AUTHOR INDEX

Volume 79, Nos 1-12

- Abel', E. V. (11) 931
Abukay, D. (7) 573
Acharya, H. N. (8) 687
Achete, C. (5) 395 (10) 825
Achiba, Y. (11) 939
Achilleos, C. A. (3) 209
Acquarone, M. (4) 343
Agarwal, S. K. (10) 857
Akis, R. (7) 577
Al Khoury, E. (4) 307
Alexandre, F. (6) 543 (7) 561
Allendoerfer, R. (12) 1053
Allred, D. D. (3) 205
Aloualiti, H. (11) 901
Altmann, W. (6) 511
Amaya, M. (4) 371
Ambrazevicius, G. (11) 889
Amelinckx, S. (7) 607 (12) 1059
Amoretti, G. (2) 197
Anashkin, V. N. (12) 1063
Andraka, B. (1) 57
Andreani, L. C. (1) 17
Anzai, H. (3) 265
Araki, H. (5) 443
Arberg, P. N. (2) 125
Arko, A. J. (7) 623
Aron, Ch. (3) 217
Arvanitis, D. (6) 479
Asayama, K. (1) 51
Aslanyan, H. A. (4) 287
Athar, H. (7) 601
Auric, P. (3) 217
Ausloos, M. (7) 615
Avakian, R. H. (4) 287
Avetisyan, A. E. (4) 287
Azevedo, L. J. (6) 469
Azoulay, R. (6) 543

Baberschke, K. (6) 479
Babonas, G.-J. (11) 955
Babu, T. G. N. (4) 375 (12) 1059
Bagaev, V. S. (11) 931
Bagraev, N. T. (2) 109
Balaev, A. D. (4) 317

Baldacchini, G. (3) 201
Balestrino, G. (10) 839
Banville, M. (4) 307
Bartlett, R. (7) 623
Basov, D. N. (11) 931
Beauvais, J. (5) 435
Beck, H. (1) 17
Beleznay, A. (10) 811
Ben-yuan Gu (11) 999
Bendre, S. T. (10) 851
Benner, H. (8) 703
Bensaid, A. (11) 923
Berg, A. (1) 93
Berry, F. J. (4) 375
Berthold, A. (8) 657 (8) 661
Bertolini, J. C. (9) 759
Bertuccio, G. (4) 379
Bhat, S. V. (9) 713
Bhattacharya, D. (11) 935
Birringer, R. (8) 683
Biswas, A. K. (8) 687
Blaha, P. (2) 121
Blaise, A. (2) 197
Blinowski, J. (11) 1021
Bo-Ping Hu (10) 785
Bockowski, M. (12) 1033
Boehnke, U. (6) 483
Boonpikum, I. (5) 417
Börner, H. (6) 483 (6) 487
Bote, P. R. (1) 5
Bouhki, M. (5) 389
Bouldin, C. (6) 507
Boureau, G. (4) 299
Boyakhchyan, Ye. M. (4) 287
Bradshaw, R. (11) 893
Braicovich, L. P. (1) 75 (4) 379
Brantervik, K. (1) 93
Bredikhin, V. V. (3) 227
Brinker, C. J. (2) 137
Brosens, F. (10) 819
Brunel, M. (11) 923
Brosen, A. (5) 389
Burnside, S. D. (3) 241
Burzo, E. (12) 1077

- Caciuffo, R. (2) 197
 Calleja, J. M. (11) 911
 Campbell, A. M. (1) 43
 Campos, V. B. (6) 473
 Cappellini, G. (2) 185
 Carbotte, J. P. (7) 577 (10) 835
 Cardona, M. (2) 131 (3) 223 (8) 673
 Carlson, K. D. (1) 57
 Cassino, F. S. L. (1) 89
 Castello, D. (11) 967
 Castineira, J. L. P. (7) 557
 Chakravarti, A. (5) 421
 Chalmers, S. A. (3) 223
 Chandra, R. (10) 831
 Chang-qing Xu, (3) 245 (3) 249
 Chanussot, G. (1) 97
 Chao, S. S. (3) 205
 Chavignon, J. (6) 543
 Chelkowski, A. (7) 597
 Chen, X. J. (5) 457
 Chepurko, G. G. (7) 569
 Chiang, C. (5) 413
 Chiarotti, G. (7) 561
 Chittaranjan, C. M. (1) 69
 Choi, J. B. (8) 693
 Chong-ru Huo (11) 999
 Chopra, K. K. (4) 289
 Chopra, K. L. (11) 935
 Christensen, N. E. (12) 1033
 Chui, S. T. (4) 387
 Ciaramella, E. (3) 201
 Ciccacci, F. (4) 379
 Clark, R. A. (4) 337
 Clark, W. G. (6) 469
 Clinard, F. W. (4) 295
 Cloots, R. (7) 615
 Coluzzi, R. (3) 201
 Coppens, P. (12) 1053
 Coppersmith, S. N. (12) 1043
 Crabtree, D. (8) 673
 Cricenti, A. (7) 561
 Crouch, A. V. S. (1) 57
 Cruz, H. (9) 749
 Cyrot-Lackmann, F. (9) 723

 Da Cunha Lima, I. C. (5) 431
 Da Silva Carrico, A. (1) 25
 Dagys, R. (11) 955
 Dallakyan, K. R. (4) 287
 Damodaran, A. D. (10) 815
 Danagulyan, S. S. (4) 287
 Daou, J. N. (4) 383
 de Bergevin, F. (11) 923
 de la Cruz, F. (11) 959
 De Michelis, B. (1) 75
 Decca, R. (11) 959
 Dederichs, P. H. (1) 31
 Degani, M. H. (6) 473
 Del Sole, R. (2) 179
 Demazeau, G. (1) 1
 Dennis, B. S. (11) 911
 Deoraj, B. M. (6) 521
 Desnica, U. V. (6) 535
 Dessau, D. S. (7) 623
 Devreese, J. T. (10) 819
 Dhariwal, S. R. (6) 521
 uDickenscheid, W. (8) 683
 Dionisio, P. H. (5) 395
 Dolgov, O. V. (11) 931
 Dose, V. (6) 511
 Dreyssé, H. (8) 645
 Drittler, B. (1) 31
 Drüsedau, T. (10) 799
 Dyakin, V. V. (1) 39

 Ebert, H. (2) 121
 Edgar, A. (4) 355
 Edwards, P. P. (1) 43 (3) 241
 Eggenhoffner, R. (1) 75
 Elbakyan, G. M. (4) 287
 Eldridge, J. E. (7) 583
 Elschner, B. (1) 61
 Elschner, S. (1) 61
 Emmel, P. D. (5) 431
 Endo, S. (1) 51
 Esfarjani, K. (4) 387
 Euler, W. B. (7) 547
 Ewert, S. (6) 525

 Fabrowski, R. (12) 1025
 Fan Yong, (11) 995
 Fang, J. Y. (11) 985
 Fang, Y. (8) 673
 Fasana, A. (1) 75
 Feder, R. (11) 989
 Feldhütter, H.-O. (11) 977
 Foglietti, V. (10) 839
 Fortin, E. (5) 435
 Fortune, N. A. (3) 265
 Fournier, J. M. (2) 197
 Frenzel, Ch. (6) 483 (6) 487
 Frolov, S. I. (1) 39
 Frost-Jensen, A. (12) 1053
 Fuchs, H. D. (3) 223
 Fujita, T. (3) 259

- Fujiwara, A. (6) 501
 Fung, P. C. W. (11) 971

 Gabriel, K.-J. (8) 657 (8) 661
 Gamo, K. (11) 885
 Gangopadhyay, S. (9) 759
 Garibian, G. M. (4) 287
 Gasparian, R. H. (4) 287
 Geldart, D. J. W. (9) 769
 George, T. F. (5) 399
 Gervais, F. (8) 677
 Ghatak, S. K. (11) 935
 Ghenim, L. (8) 693
 Giacometti, J. A. (10) 825
 Gleiter, H. (8) 683
 Godelaine, P. A. (7) 615
 Goettig, S. (11) 1009
 Goldmann, A. (6) 511
 Golubev, V. G. (12) 1035
 Golubkov, A. V. (3) 227
 Gonzalez-Hernández, J. (3) 205
 Goñi, A. R. (11) 911
 Gopinathan, K. P. (1) 69
 Gorczyca, I. (12) 1033
 Gorochoy, O. (10) 857 (10) 875
 Gossard, A. C. (3) 223
 Gottlieb, D. (7) 551
 Grazhulis, V. A. (11) 917
 Greaney, M. (10) 803
 Greaves, C. (4) 375 (12) 1059
 Greenblatt, M. (10) 803
 Grezegory, I. (12) 1033
 Grishin, A. M. (9) 729
 Gröger, V. (6) 461
 Guéret, P. (5) 403
 Gui-Chuan Liu (10) 785
 Guilmin, P. (5) 389
 Günther, B. (8) 683
 Güntherodt, H.-J. (8) 661
 Guo, G. Y. (2) 121
 Guo-qing Zheng, (1) 51
 Guohui Cao (6) 491
 Gupta, A. K. (10) 831
 Guptasarma, P. (10) 851
 Guyot, H. (4) 307
 Gwangseo Park, (3) 237
 Gyurdzhyan, V. A. (4) 287

 Habermeier, H.-U. (8) 673
 Hackl, R. (5) 409
 Hagenmuller, P. (8) 635
 Hairetdinov, E. F. (8) 635
 Hamawi, A. (1) 101

 Hannay, C. (7) 615
 Hao Che, (3) 273
 Harada, Y. (5) 453
 Hasanain, S. K. (7) 601
 Hau, H. Wang (7) 583
 Hayashi, S. (9) 763
 Hedberg, B. (1) 93
 Hegde, M. S. (9) 713
 Henkie, Z. (12) 1025
 Hérino, R. (11) 923
 Hernandez-Cabrera, A. (9) 749
 Herrmann, J. (6) 483 (6) 487
 Himmrich, J. (5) 447
 Hioki, T. (3) 255
 Hipólito, O. (6) 473
 Horai, K. (3) 259
 Horbach, M. (11) 897
 Horn, J. (6) 483
 Holyst, J. A. (8) 703
 Huan, G. (10) 803
 Huang, Y. T. (5) 413
 Humlíček, J. (8) 673
 Hurng, W.-M. (5) 413
 Husain, M. (8) 699
 Hutchings, M. T. (2) 197

 Iandelli, A. (1) 75
 Ibarra, A. (4) 295
 Iikawa, F. (2) 131
 Ikehara, T. (9) 755
 Ikemoto, I. (11) 939
 Imaeda, K. (11) 939
 Inokuchi, H. (11) 939
 Inoue, K. (11) 905
 Ishibashi, M. (3) 265
 Ishida, K. (1) 51
 Ishii, H. (5) 453
 Ito, R. (3) 245 (3) 249
 Itoh, T. (9) 755
 Iwahashi, K. (3) 259
 Iyer, S. S. (2) 161

 Jaime, M. (11) 967
 Jandl, S. (4) 307
 Janecek, I. (9) 717
 Janes, R. (3) 241
 Janssen, M. (12) 1073
 Jayarama Reddy, P. (3) 277
 Jayavel, R. (5) 421
 Jeandey, C. (3) 217
 Jee, C. S. (1) 57
 Jeon, B. K. (3) 237
 Jespen, O. (7) 623

- Ji-Hong Chen, (2) 175
Jia, Y. X. (4) 349
Jiménez de Castro, M. (4) 295
Johnson, J. D. (1) 43
Julien, C. (10) 875
Jun, J. (12) 1033
- Kacman, P. (11) 1021
Kahrizi, M. (2) 167
Kajita, K. (11) 1017
Kaldis, E. (7) 607
Kan, L. (1) 61
Kanert, O. (8) 683
Karakozov, A. E. (4) 329
Karpinski, J. (7) 607
Kato, R. (4) 337
Kawaguchi, K. (1) 47
Kawaguchi, T. (2) 155
Kennou, S. (10) 795
Khan, J.A. (7) 601
Khanra, B. C. (9) 759
Khodja, M. (5) 427
Khvostantsev, L. G. (3) 227
Kiejin Lee (3) 237
Kikuchi, K. (11) 939
Kim, J. S. (1) 57
Kim, K. H. (6) 507
Kim, Y. (10) 811
Kini, A. M. (1) 57
Kinoshita, N. (3) 265
Kircher, J. (8) 673
Kiselev, N. I. (4) 317
Kisogyan, H. S. (4) 287
Kitaoka, Y. (1) 51
Kitous, D. (4) 289
Klinger, M. I. (3) 231
Kobayashi, A. (4) 337
Kobayashi, H. (4) 337
Kodama, Y. (1) 51
Koike, Y. (2) 155 (6) 501
Kolpakova, N. N. (9) 707
Kondo, T. (3) 245 (3) 249
Kono, J. (12) 1039
Koo, H. S. (5) 413
Korenivski, V. N. (9) 729
Kornelsen, K. (7) 583
Koshy, J. (10) 815
Kossanyi, J. (1) 85
Kotani, A. (8) 641
Kotlinski, J. (2) 167
Kouyate, D. (1) 85
Koyama, T. (12) 1049
- Kozaru, K. (9) 763
Krasko, G. L. (2) 113
Krekels, T. (7) 607
Krishnamurthy, N. (4) 363
Kriza, G. (10) 811
Krötzsch, M. (6) 483
Kruglik, A. I. (4) 317
Kulyuk, L. (5) 439
Kumar, A. (8) 699
Kumar, V. (1) 69
Kumata, K. (3) 245 (3) 249
Kundra, K. D. (8) 667
Kunhardt, E. E. (8) 651
Kuroda, H. (4) 337
Kuz'mina, M. A. (1) 39
Kyprianidis, I. M. (3) 209
- Lagos, M. (7) 551
Lagos, R. E. (4) 323
Lai Wuyan (10) 791
Larroque, J. (2) 197
Lawangar-Pawar, R. D. (1) 5 (2) 105
Lederle, B. (1053
Lee, W. H. (5) 413
Léger, J. M. (11) 901
Lei Qingquan (11) 995
Leite, J. R. (7) 557
Lenahan, P. M. (2) 137
Lenk, R. (6) 531
Leonyuk, L. (11) 955
Lepienski, C. M. (10) 825
Li Zhiqiang, (10) 791
Li-Bin Lin, (3) 273
Licheron, M. (8) 677
Lideikis, T. (11) 889
Lima, R. S. (5) 395
Lippold, B. (6) 483 (6) 487
Lissart, N. (8) 677
List, R. S. (7) 623
Litinsky, L. B. (10) 879
Litovchenko, V. G. (1) 39
Liu Guoqin (11) 1005
Liu, J. Z. (4) 359
Liu, R. S. (1) 43
Lo, C. F. (9) 775
Lodder, A. (2) 143 (2) 147
López, D. (11) 959
Lu, D. F. (11) 971
Lu, Z. H. (11) 985
Lucaci, P. (12) 1077
Luo Helie, (10) 791
Lutz, H. D. (5) 447

- Machado, F. L. A. (6) 469
Maksimov, E. G. (4) 329
Maksimovic, G. D. (7) 631
Mal'shukov, A. G. (1) 81
Mani, R. G. (8) 693
Manzar Malik, M. (8) 699
Marcinkevicius, S. (11) 889
Marcus, J. (4) 307
Margaritondo, G. (1) 13
Marinelli, M. (10) 839
Markendeyaulu, G. (11) 935
Marsi, M. (1) 13
Maslanka, R. (12) 1025
Masmoudi, O. (4) 299
Masuda, S. (5) 453
Matsuda, O. (11) 905
Matsuoka, R. (5) 443
Matukhin, V. L. (12) 1063
Mayou, D. (9) 723
McCarty, K. F. (4) 359
Mele, E. J. (6) 515
Michel, B. (8) 683
Mihály, G. (10) 811
Mikhailovsky, A. A. (4) 329
Milani, E. (10) 893
Milat, O. (12) 1059
Millis, A. J. (12) 1043
Ming-C. Cheng (8) 651
Mishra, A. K. (6) 539
Misra, S. K. (2) 167
Mitrovic, B. (2) 125
Miura, N. (3) 249 (12) 1039
Mkhitarian, A. Kh (4) 287
Mkrtchian, A. H. (4) 287
Mkrtchyan, A. R. (4) 287
Modak, S. (9) 759
Montarroyos, E. (6) 469
Montenegro, F. C. (6) 469
Montereali, R. M. (3) 201
Moorthy, V. N. (10) 857
Moran-Lopez, J. L. (2) 151
Moser, P. (4) 383
Moshkin, S. V. (1) 39
Mosser, A. (8) 641
Mostefa, M. (5) 427
Motliakh, A. P. (1) 39
Mowbray, D. J. (3) 223
Mukherjee, D. (8) 687
Müller, J. F. (11) 911
Müller, P. (5) 409
Multani, M. S. (10) 851
Mumtaz, A. (7) 601
Muñoz, A. (9) 749
Murase, K. (11) 885 (11) 905
Murata, K. (3) 265
Murugakoothan, P. (5) 421
Nagasawa, H. (4) 281
Naito, T. (4) 337
Nakamichi, S. (1) 51
Nakano, H. (7) 573
Namba, S. (11) 885
Nandgave, J. K. (1) 5 (2) 105
Nandi, K. C. (8) 687
Narlikar, A. V. (10) 857
Naudžius, K. (11) 889
Naughton, M. J. (12) 1053
Nawrocki, J. P. (4) 303
Nguyen Manh, D. (9) 723
Nguyen Tan, T. A. (10) 795
Nicol, E. J. (10) 835
Niewiara, M. (7) 597
Niklasson, G. A. (1) 93
Nilsson, L. O. (1) 93
Nilsson, P. O. (2) 191
Nishida, A. (3) 259
Nishio, Y. (11) 1017
Nogueira Jr, E. (1) 25
Noji, T. (2) 155 (6) 501
Northrop, G. A. (2) 161
Nozières, J. P. (1) 21
Nunez Regueiro M. (11) 967
Oda, Y. (4) 371
Oechsner, H. (10) 799
Ogale, S. B. (10) 851
Ohkubo, M. (3) 255
Ohmura, Y. (12) 1029
Ohno, Y. (12) 1081
Ohta, H. (4) 281
Okada, K. (8) 641
Okubo, T. (6) 501
Olcese, G. L. (1) 75
Olson, G. B. (2) 113
Onoda, M. (4) 281
Osborn, R. (2) 197
Ossipyan, Yu. A. (12) 1063
Osuch, K. (10) 867
Palenzona, A. (1) 75
Palkar, V. R. (10) 851
Pandey, L. N. (5) 399
Pandey, S. D. (6) 539
Pansup Song, (3) 237
Paoletti, A. (10) 839
Parlebas, J. C. (8) 641

- Parmigiani, F. (7) 623
 Paroli, P. (10) 839
 Patil, P. K. (1) 5 (2) 105
 Patrat, G. (11) 923
 Paukov, I. V. (7) 569
 Paulose, K. V. (10) 815
 Pawlik, D. A. (3) 205
 Pecheur, P. (10) 847
 Perlin, P. (12) 1033
 Petrakovskii, G. A. (4) 317
 Petrillo, C. (7) 561
 Pfeiffer, L. N. (11) 911
 Piancastelli, M. N. (1) 13
 Pietraszko, A. (9) 707
 Pilla, O. (3) 201
 Pinczuk, A. (11) 911
 Pires, A. S. T. (1) 89
 Plakhty, V. P. (4) 313
 Plechávek, V. (9) 717
 Plotnikov, A. F. (11) 931
 Poiarkov, A. G. (11) 931
 Polovtsev, I. S. (2) 109
 Popova, M. N. (7) 569
 Popovic, Z. S. (7) 631
 Prettl, W. (12) 1035
 Przybylińska (11) 1021
 Pukinskas, G. (11) 955
 Puppini, E. (1) 75 (4) 379

 Qi Wang (3) 205

 Radic, N. (6) 535
 Radousky, H. B. (4) 359
 Rajeev, K. P. (7) 591
 Rajput, R. (8) 667
 Ramakrishnan, C. (4) 363
 Ramanujachary, K. V. u (10) 803
 Ramasamy, P. (5) 421
 Ranganathan, R. (5) 421
 Rangarajan, G. (6) 491
 Rao, K. (6) 543
 Raychaudhuri, A. K. (5) 421 (7) 591
 Reau, J. M. (8) 635
 Rechenberg, H. R. (1) 21
 Reddy, Y. S. (8) 667
 Rémy, P. (4) 383
 Rezende, S. M. (6) 469
 Righini, M. (7) 561
 Rigo, S. (2) 119
 Rinderer, L. (7) 573
 Röhler, J. (6) 479
 Romeo, M. A. (8) 641
 Ronfard-Haret, J.-C. (1) 85

 Ruckenstein, A. E. (11) 911
 Rulmont, A. (7) 615
 Rusiecki, S. (7) 607
 Ruvalds, J. (10) 875
 Ruzhang Ma (6) 491

 Sablina, K. A. (4) 317
 Sacchetti, F. (7) 561
 Sadosky, W. (11) 931
 Safin, I. A. (12) 1063
 Sahu, D. (5) 399
 Saito, Y. (2) 155 (6) 501
 Sakakura, H. (3) 245 (3) 249
 Sanchez, J. M. (2) 151
 Sancrotti, M. (1) 75 (4) 379
 Santic, B. (6) 535
 Sapriel, J. (6) 543
 Sasaki, S. (12) 1039
 Sasaki, T. (4) 371
 Sasaki, W. (11) 1017
 Satyanarayana Murty, Y. (3) 277
 Savransky, S. D. (10) 843
 Scacco, A. (3) 201
 Schlenker, (4) 307
 Schlenkrich, F. (6) 483 (6) 487
 Schliepe, B. (6) 479
 Schmitt-Rink, S. (11) 911
 Schmitz, S. (6) 525
 Schreiner, W. H. (5) 395
 Schröder, B. (10) 799
 Schülke, W. (8) 657 (8) 661
 Schulte-Schrepping, H. (8) 657 (8) 661
 Schwarz, K. (2) 121
 Scolfaro, L. M. R. (7) 557
 Seki, S. (11) 947 (11) 951
 Selci, S. (7) 561
 Selme, M. O. (10) 847
 Semmelhack, H. C. (6) 483 (6) 487
 Sen, D. (11) 935
 Sergeenkov, S. A. (10) 863
 Sermage, B. (6) 543
 Seung Pyung Choi, (3) 237
 Shan Shufa (11) 995
 Sharma, R. G. (8) 667
 Shegelski, M. R. A. (9) 769
 Shei, C. Y. (5) 413
 Shelton, R. N. (4) 359
 Shen, Z.-X. (7) 623
 Shibayama, H. (3) 259
 Shiiyama, K. (3) 259
 Shivashankar, G. V. (7) 591
 Si-Chen Lee, (2) 175
 Sidorov, V. A. (3) 227

- Simunek, A. (11) 977
 Singh, D. P. (8) 667
 Singh, K. K. (3) 241
 Sinha, K.P. (9) 735
 Sladek, R. J. (11) 893
 Slavcheva, G. (5) 439
 Slebarski, A. (7) 597
 Smirnov, I. A. (3) 227
 Smith-Palmer, T. (2) 167
 Sohma, M. (1) 47
 Sollie, R. (9) 775
 Somma, F. (3) 201
 Srinivasu, V. V. (9) 713
 Srinivasulu Naidu, B. (3) 277
 Srivasta, K. M. K. (6) 539
 Stathis, J. H. (2) 119
 Staufer, T. (5) 409
 Steinitz, M. O. (2) 167
 Stesmans, A. (9) 741
 Stewart, G. R. (1) 57
 Stoeffler, D. (8) 645
 Strieby Crouch, A. V. (7) 583
 Stroeve, P. (11) 985
 Subramanian, C. (5) 421
 Subramanyam, S. V. (7) 629
 Sumiyama, A. (4) 371
 Sun, G. F. (11) 971
 Sun, Z. M. (11) 985
 Sung-Ik Lee (12) 1069
 Suryanarayanan, R. (10) 857
 Suzuki, S. (11) 939
 Svensson, S. P. (2) 191
 Szabo, A. (7) 547
 Szczepanska, L. (9) 707
 Szymanik, B. (4) 355

 T. Yamashiro, (11) 885
 Tachiki, M. (12) 1049
 Tajima, H. (4) 337
 Takagaki, Y. (11) 885
 Takahara, J. (11) 885
 Takahashi, Y. (3) 245 (3) 249
 Takaoka, S. (11) 885
 Takashima, M. (4) 371
 Takeyama, S. (3) 249
 Tamura, E. (11) 989
 Tamura, M. (4) 337
 Tanaka, R. (1) 51
 Tanaka, Y. (4) 349
 Tanatar, M. A. (1) 39
 Taraskin, S. N. (3) 231
 Taroyan, S. P. (4) 287
 Taylor, A. D. (2) 197

 Temmerman, W. M. (2) 121
 Tetot, R. (4) 299
 Teweldemedhin, Z. (10) 803
 Tewardt, L. (11) 963
 Tezlevan, V. E. (5) 435
 Thomas, B. (9) 713
 Thommes-Geiser (8) 661
 Toigo, F. (5) 457
 Tokumoto, K. (3) 265
 Tomar, V. S. (10) 831
 Tomellini, M. (2) 179
 Trallero-Giner, C. (2) 131
 Trimaille, I. (2) 119
 Tröger, L. (6) 479
 Tsiok, O. B. (3) 227
 Tsoukalas, I. A. (3) 209
 Tsukada, M. (4) 349
 Tsuzuki, T. (1) 9

 Ugawa, A. (11) 939
 Ul'yanov, A. N. (9) 729
 Underhill, A. E. (4) 337
 Unishi, T. (4) 371
 Uthanna, S. (3) 277
 Uvarov, N. F. (8) 635

 Vaidhyanathan, L. S. (6) 491
 Vajda, P. (4) 383
 Van Tendeloo, G. (7) 607 (12) 1059
 Vanderschueren, H. W. (7) 615
 Vanderwoort, K. (8) 673
 Vasanthacharya, N. Y. (9) 713
 Vasek, P. (9) 717
 Vasiliev, V. N. (4) 317
 Vel, L. (1) 1
 Velikanov, D. A. (4) 317
 Vendik, I. B. (9) 779
 Venkateswara Rao, C. R. (5) 421
 Vescovo, E. (1) 75 (4) 379
 Veuillen, J-Y. (10) 795
 Vijayaraghavan, R. (10) 851
 Vijayashree, M. N. (7) 629
 Vila, R. (4) 295
 Virosztek, A. (10) 875
 Viswanathan, B. (1) 69
 Voos, M. (6) 543
 Vorotinov, A. M. (4) 317
 Vukajlovic, F. R. (7) 631

 Walldén, L. (1) 101
 Wang Xiu, (11) 1005
 Wang, H. H. (1) 57
 Waplak, S. (9) 707

- Warren, W. L. (2) 137
Watanabe, N. (2) 155
Watkins, D. M. (7) 583
Watts, B. R. (6) 465
Webb, A. W. (6) 507
Wei, Y. (11) 985
Weiner, J. S. (11) 911
Weinert, M. (1) 31
Wells, B. O. (7) 623
Welp, U. (8) 673
Wermbter, S. (11) 963
West, K. W. (11) 911
Wiech, G. (11) 977
Williams, J. M. (1) 57 (7) 583
Wisniewski, P. (12) 1025
Wolford, D. J. (2) 161
Wong, K. W. (11) 971
Wu, P. T. (5) 413
Wu, S. F. (5) 413
Wu, Y. (9) 741
Wurlitzer, M. (6) 483 (6) 487

Xianhui Bu (12) 1053
Xiao Dingquan, (11) 1005
Xiao, S. J. (11) 985
Xin Fei, (11) 971
Xin-Chuan Zeng (3) 273
Xu Guanfeng (11) 1005

Yakushi, K. (11) 939
Yamagami, H. (4) 349

Yamamoto, K. (9) 763
Yamashiro, T. (11) 885
Yanase, E. (1) 51
Yanchev, I. (5) 439
Yang Li (6) 491
Yang, H. (11) 971
Yang-Fang Chen, (2) 175
Yefanov, V. S. (1) 39
Yokoi, H. (12) 1039
Yoksan, S. (5) 417
Yoshino, K. (5) 443
Youm, K. H. (12) 1069
Young, V. Y. (4) 303
Yu Xia, (3) 273

Zakhidov, A. A. (11) 939
Zanoni, R. (1) 13
Zaluzny, M. (11) 1013
Ze-Nong Ding, (3) 273
Zehetbauer, M. (6) 461
Zeller, R. (1) 31
Zeng Zhi (10) 791
Zhang Wen (11) 1005
Zhao Shipin (11) 1005
Zharikov, O. V. (12) 1063
Zheng Qingqi (10) 791
Zhongxian Zhao (6) 491
Zhu jianguo (11) 1005
Zoubkova, Ja. (7) 569
Zulfequar, M. (8) 699

